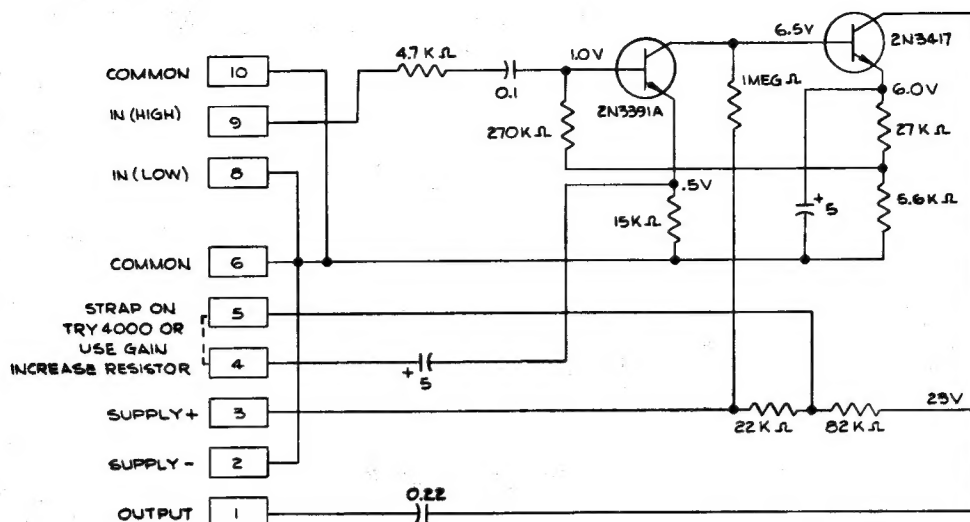


# AM 4300 AMPLIFIER



THE AM4300 AMPLIFIER IS PRIMARILY INTENDED FOR USE AS A HIGH-IMPEDANCE MICROPHONE PREAMPLIFIER, but may also be used as a post-mixing amplifier, a post-equalization amplifier, etc. When equipped with Modification Group MG4001, it becomes a phonograph preamplifier with RIAA characteristic.

**INPUT IMPEDANCE** Approximately 250,000 ohms. All data on this sheet were obtained with 100,000 ohm source. Use of source lower than 100,000 ohms will not materially affect performance.

**GAIN** Voltage gain is approx. 10x when strapping on tray is for lowest gain. Provision of a fixed resistor (or MG4007, which is variable) between terminals 4 and 5 on TRY4000 will raise gain per table below:

Increase, db	R, Kohm	Increase, db	R, Kohm
3	15	9	68
6	36	12	110

**FREQUENCY RESPONSE** Uniform  $\pm 0.2$  db from 30 Hz to 15 kHz (with lowest gain strapping).  
Uniform  $\pm 0.5$  db from 30 Hz to 15 kHz (with gain raised 12 db).

**OUTPUT IMPEDANCE** To be loaded with 250,000 ohms or more. Actual dynamic output impedance is under 1000 ohms with low gain strapping and under 10,000 ohms with gain raised 12 db.

**HARMONIC GENERATION (PER CENT)** At 5.0 v rms (1000 Hz): Total harmonic generation will not exceed 0.2 with unit strapped for low gain, 0.4 with gain raised 12 db. THG will not exceed 0.25 (low gain) or 0.3 (gain raised 12 db) at 30 Hz. THG will not exceed 0.3 (low gain) or 1.0 (gain raised 12 db) at 15 kHz.

**NOISE** Noise generation is lower than an equivalent input signal level of -116 dbm.

**POWER REQUIREMENT** Demand from 42 v DC supply is approximately 220 microamperes. Do not power from a supply that is over 50 v DC. Supply must contain less than 1.0 millivolt total noise.

**SIZE** Constructed on printed-wiring card whose overall dimensions are 2 1/4" wide x 2 1/2" long. "Long" dimension includes printed-on plug terminals. No part on the board extends more than 1/2" from its surface.

**MOUNTING** To be mounted in TRY4000 Tray. When seated in tray, maximum overall dimensions are: From flat side of tray to top of tallest part on AM4300, 7/8". Flat mounting area (length includes solder lugs on tray connector), 2 7/8" long x 2.45" wide.

When the TRY4000 (containing AM4300 Amplifier) is mounted to panel by means of the BKT4000 Bracket and a gain control (not supplied), minimum mounting centers are 1 1/8".

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Because of a policy of inaugurating changes in solid-state equipment at irregular intervals in order to maintain "state of the art" performance, Langevin reserves the right to modify design of this product without notification.